

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,166	04/11/2005	Hans-Christoph Magel	R.303664 4632	
	7590 01/25/2008		EXAMINER	
RONALD E. GREIGG GREIGG & GREIGG P.L.L.C.		KIM, CHRISTOPHER S		
1423 POWHAT ALEXANDRIA	ΓAN STREET, UNIT ONE A. VA 22314		ART UNIT PAPER NUMBER	
	.,		3752	
	•		MAIL DATE	DELIVERY MODE
			01/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		· · · · · · · · · · · · · · · · · · ·					
		Application No.	Applicant(s)				
Office Action Summary		10/531,166	MAGEL, HANS-CHRISTOPH				
	Office Action Summary	Examiner	Art Unit				
		Christopher S. Kim	3752				
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address				
WHI(- Exte after - If N(- Fail Any	CHEVER IS LONGER, FROM THE MAILING DA ensions of time may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	N. nely filed the mailing date of this communication. D. (35 U.S.C. 8.133)				
Status							
1)🖂	Responsive to communication(s) filed on 21 De	ecember 2007.					
2a)□		action is non-final.	·				
3)	Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the merits is				
	closed in accordance with the practice under E						
Disposit	ion of Claims						
4)🖂	Claim(s) 20,21 and 23-37 is/are pending in the	application.					
4a) Of the above claim(s) <u>26,28,29,31-34 and 36</u> is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>20,21,23-25,27,30,35 and 37</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority L	ınder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	r(s)						
	e of References Cited (PTO-892)	. 4) Interview Summary ((PTO-413)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dai	te				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

Application/Control Number: 10/531,166

Art Unit: 3752

Page 2

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 21, 2007 has been entered.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

3. Claims 26, 28, 29, 31-34 and 36 remain withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on December 20, 2006.

Claim Rejections - 35 USC § 102

4. Claim 37 is rejected under 35 U.S.C. 102(b) as being anticipated by Boecking (US 2002/0023970 A1).

Boecking discloses a fuel injection device comprising:

Application/Control Number: 10/531,166

Art Unit: 3752

a multi-part injector body 2;

a pressure booster means comprising:

a pressure booster piston 9, 15, 19;

a working chamber 13;

a differential pressure chamber (chamber surrounding 10);

an on-off valve 3;

a central control line (downstream vertical portion of 10).

5. Claims 20, 21, 23, 25, 27 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato et al. (4,627,571).

Kato discloses a fuel injection device comprising:

a multi-part injector body 18, 22;

a pressure booster means comprising:

a pressure booster piston 56;

a working chamber 24;

a differential pressure chamber 54;

an on-off valve 12;

a central control line 58;

a high pressure tight connection 46;

a sealing sleeve 42;

a spring 50.

6. Claims 20, 21, 23, 25 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Boecking et al. (WO01/38712).

Application/Control Number: 10/531,166

Art Unit: 3752

Boecking discloses a fuel injection device comprising:

a multi-part injector body 46, 54, 56;

a pressure booster means comprising:

a pressure booster piston 62;

a working chamber 78;

a differential pressure chamber 75;

an on-off valve 16;

a central control line 58, 65;

a recess 73;

an overflow line 34, 49;

a spring 50.

7. Claims 35 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Schneider (4,538,576).

Schneider discloses a fuel injection device comprising:

a multi-part injector body 12 (body 12 includes multiple parts including plunger 16);

a pressure booster means comprising:

a pressure booster piston 18;

a working chamber 20;

a differential pressure chamber 30;

an on-off valve 80;

a central control line 46.

Art Unit: 3752

Response to Arguments

8. Applicant's arguments filed November 21, 2007 have been fully considered but they are not persuasive.

It appears that applicant is arguing that the amended claims now invoke means plus function under 35 U.S.C. 112, sixth paragraph. Claim 27 violates the third prong of the 3-prong analysis specified under MPEP 2181.

- (A) the claim limitations must use the phrase "means for" or "step for;"
- (B) the "means for" or "step for" must be modified by functional language; and
- (C) the phrase "means for" or "step for" must not be modified by sufficient structure, material, or acts for achieving the specified function.

The "pressure booster means for increasing pressure..." is modified by structure for achieving the specified function. The claim recites "...said pressure booster means (11) comprising..."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

Art Unit: 3752

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272/1000.

Christopher S. Kim-Primary Examiner Art Unit 3752

CK